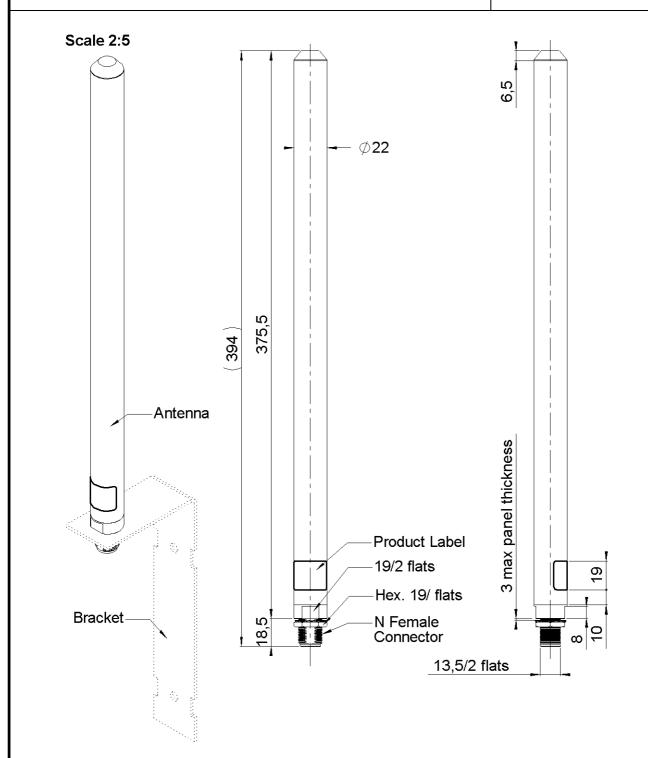
#### **OMNIDIRECTIONAL ANTENNA**

# R380.700.205

Series: ANTENNA



All dimensions are in mm



Issue: 0405 D

In the effort to improve our products, we reserve the right to make changes judged to be necessary.



R380.700.205

#### **OMNIDIRECTIONAL ANTENNA**

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### **ELECTRICAL CHARACTERISTICS**

Frequency: 5.725-5.875 GHz

Nominal Impedance :  $50 \Omega$ 

VSWR:

Normal & Icing Conditions: 1.5 Max

Omni cut plane gain measurement over the frequency band.

Average Gain :  $10 \text{ dBi} \pm 1 \text{ dB}$ 

**Radiation Pattern:** 

360°Omni-directional in the Horizontal Plane:

Undulation Ratio in the Horizontal Plane : 2.4 dB (Typ)

-3 dB beamwidth in the Vertical Plane : 8.5  $^{\circ} \pm 0.5$   $^{\circ}$ 

Cross Polarization level:

Horizontal Plane: >23 dB

Vertical Plane: >23 dB

Electrical tilt across band :  $0^{\circ}$ 

Polarization: VERTICAL

Power withstanding: 20 W

DC Grounding: YES

Connector type: N Female (R161.311.330)

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RADIALL/LARSEN antenna technologies

R380.700.205

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### **MECHANICAL CHARACTERISTICS**

Plastic radome : Acrylonitrile Styrene Acrylate (ASA)

**UL File-N°. E41871 (UL 94 – HB)** 

Color: PANTONE COOL GRAY 1C

Ingress Protection: IP 67
Weight: 134.000 g

Wind-loading in accordance 200 Km/h

with the ETS 300 019-1-4.1E:

Overall length: 394 mm

Fixing system:

The Radome Omni antenna can be mounted in a variety of ways. Radiall/Larsen recommends using the following brackets:

FB2BRACKET (for end of mast or non-metallic wall mounting),

- FB3BRACKET (for mid mast or metallic wall mounting).

For additional bracket options, please see the Radiall/Larsen Antenna SourceBook or the Radiall/Larsen web-site (<a href="www.radialllarsen.com">www.radialllarsen.com</a>).

All brackets are sold separately.

## **ENVIRONMENTAL CHARACTERISTICS**

Transportation: In accordance with the ETS 300-019-1-2 T2.3

Temperature:

Stationary: -40/+55 °C (1), (2)

Cyclic:  $-40^{\circ}\text{C} - +55^{\circ}\text{C}$  Rate  $0.5^{\circ}\text{C/min}$  (3)

Humidity:

Stationary: 93% @ 30° C (4)

Vibration:

Sinusoidal:  $\pm 3 \text{ mm} / 10 \text{ m/s}^2 (5)$ 

Shocks:  $250 \text{ m/s}^2 (6)$ 

Salt mist : **22 Hours** 40°C 93% HR

**72 Hours** 23°C 45-55% HR (7)

Drop test: 1 & 3 m (8)

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#### TESTS ENVIRONMENTAL

Test report n° 2002-46-8549

- (1) Tests following IEC 68-2-1 Ad Duration: 16 hours @ -40° C
- (2) Tests following IEC 68-2-2 Bd Duration: 16 hours @ +55° C
- (3) Tests following IEC 68-2-14 Nb temperature changing rate: 0.5°C/min time at each temperature: 16 hours 6 cycles
- (4) Tests following IEC 68-2-3 Stationary: 93% @ +30° C during 21 days
- (5) Tests following IEC 68-2-6 Fc
  5 to 9 Hz: 3mm peak, 9 to 200 Hz: 10 m/s<sup>2</sup>
  variation: 1 Octave/min.
  5 cycles 5-200-5 Hz on each of the 2 axes
- (6) Tests following IEC 68-2-29 Eb Half sinus shocks, duration: 6 ms 500 bumps in each of the 3 axes
- (7) Tests following IEC 68-2-52 Kb
  Salted solution atomized during 2 hours
  Concentration: 5% / 6.5 < pH < 7.2 @ 20°C
  Solution collected: 1 < v < 2mL/h
- (8) Tests following IEC 68-2-32 Ed Height: 1 m and 3 m 2 Drops along 3 directions



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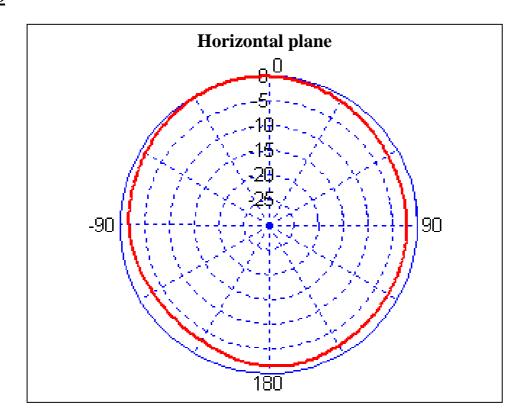


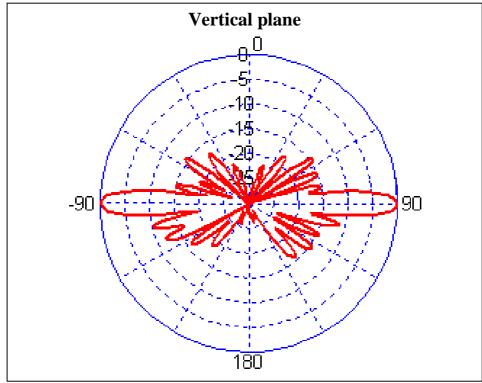
## **OMNIDIRECTIONAL ANTENNA**

# R380.700.205

## Series : ANTENNA

## **CURVES**





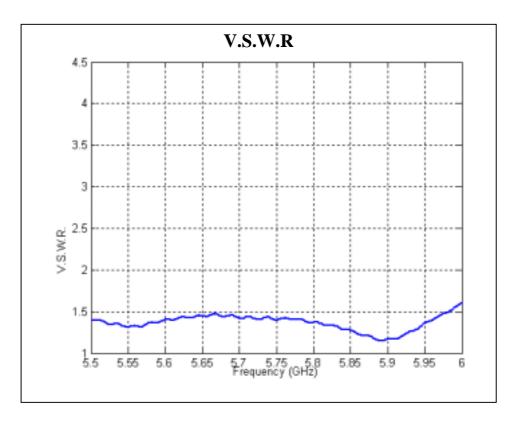
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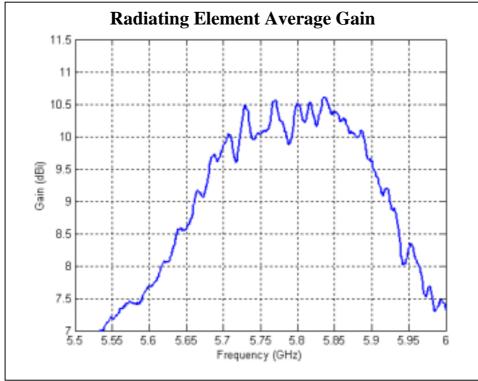


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#### OMNIDIRECTIONAL ANTENNA

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